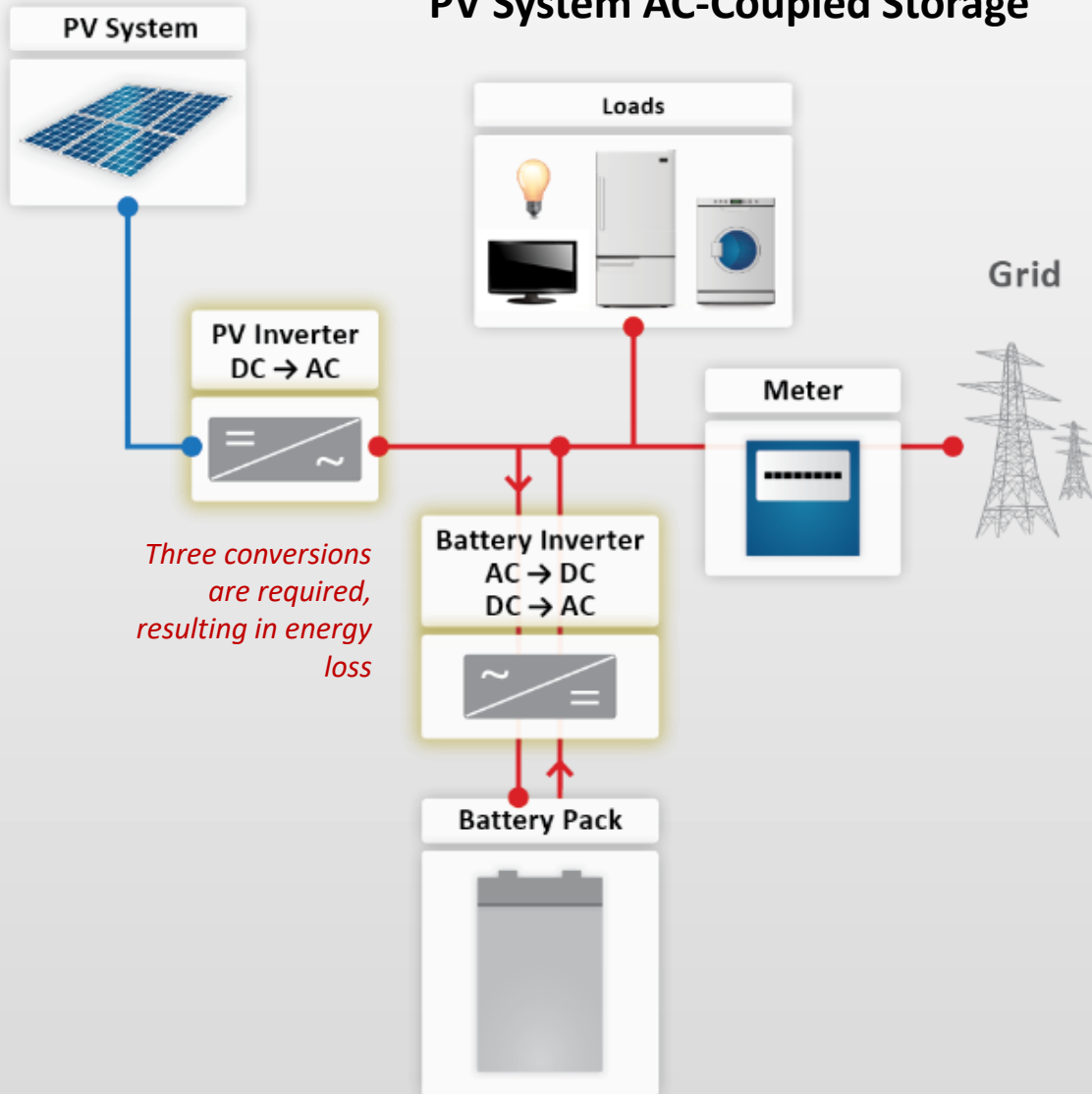


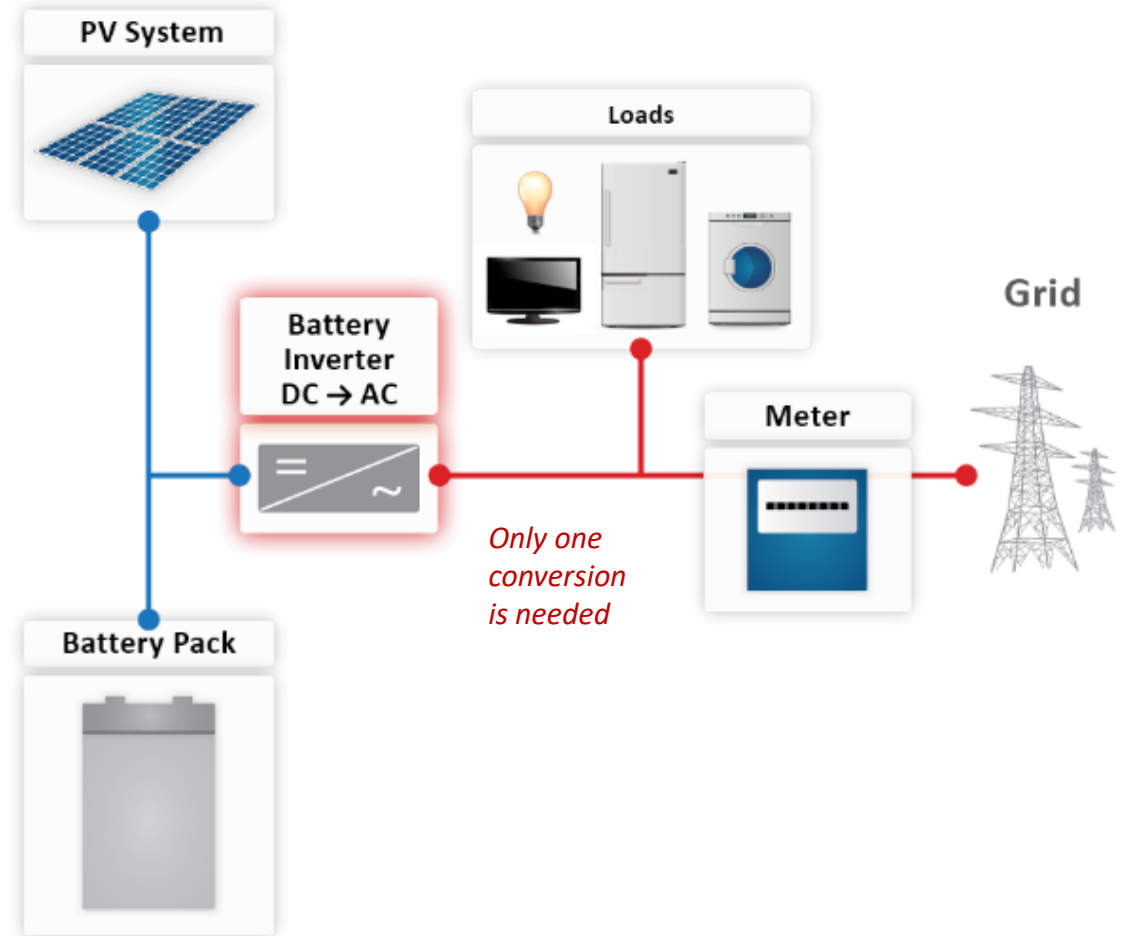
AC Coupled vs. DC Coupled

PV System AC-Coupled Storage



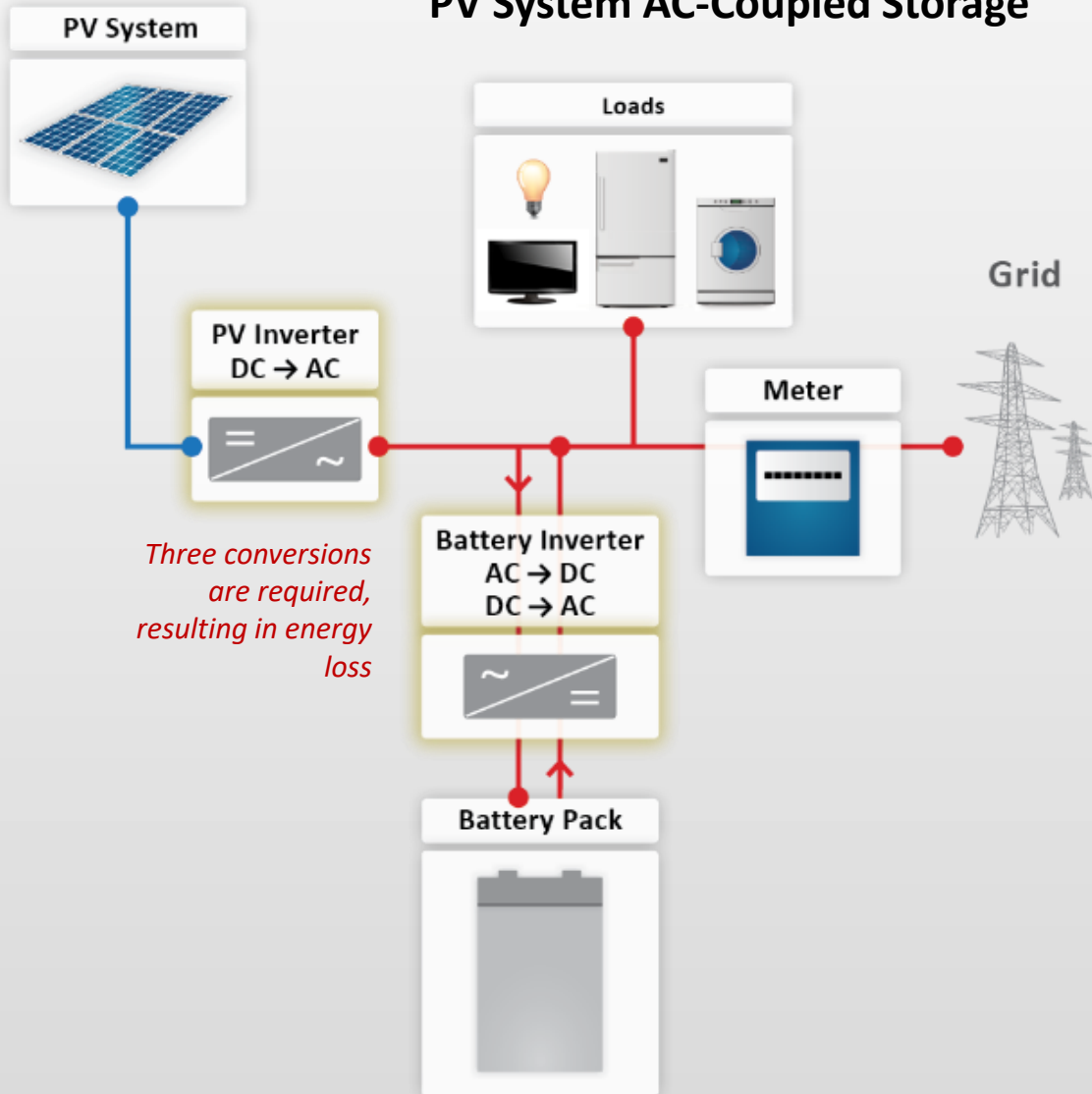
VS.

PV System DC-Coupled Storage

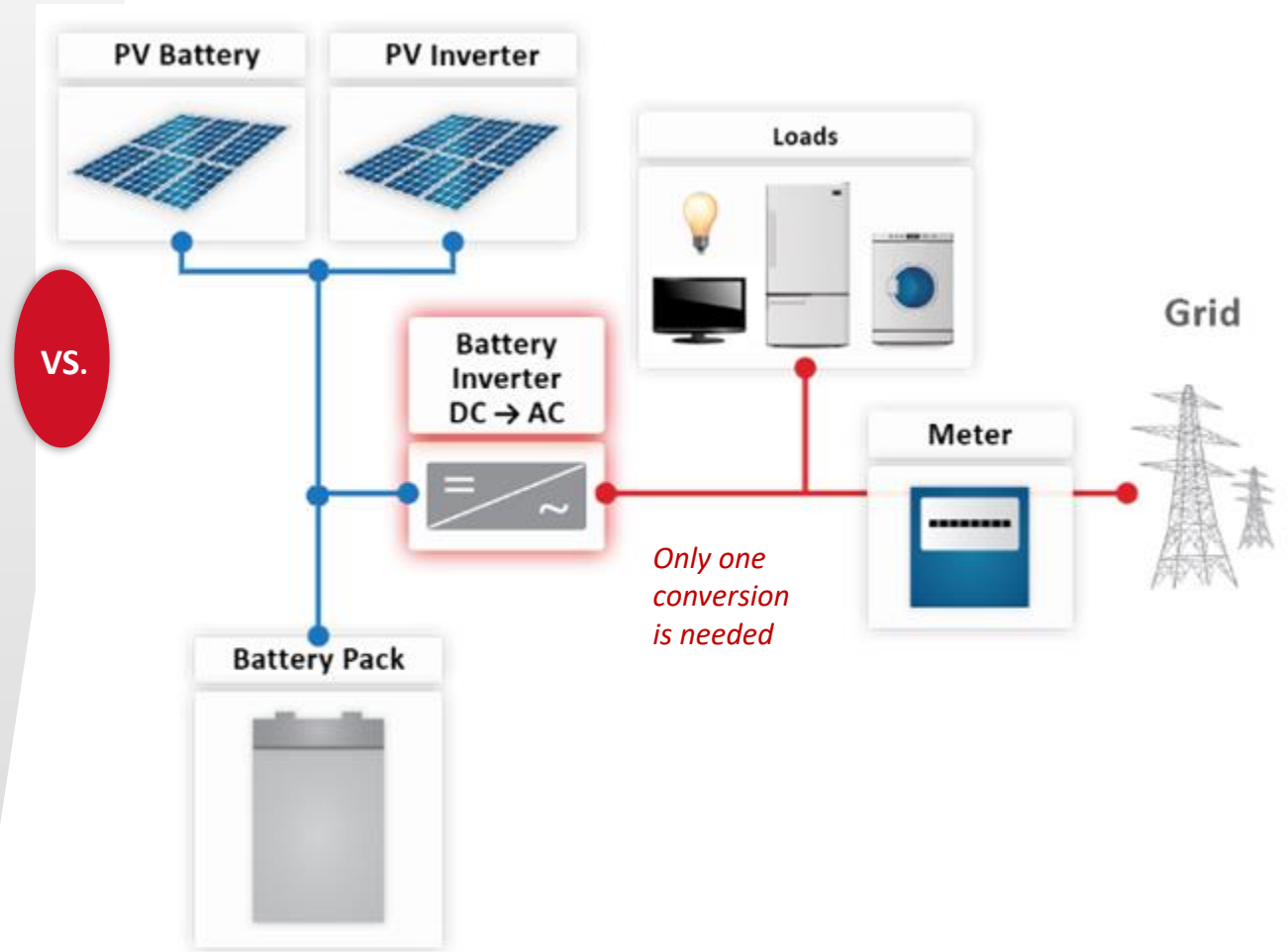


AC Coupled vs. DC Coupled

PV System AC-Coupled Storage



PV System DC-Coupled Storage + SE Rapid Charge



VS.

Sell More Modules with DC Coupled Storage

The technical details

Sell More Modules with DC Coupled Storage

- The new PV Charge Capacity increase – how to install up to 5kWp of additional PV
 - SolarEdge's StorEdge interface within the SESTI and Backup inverters, manages battery charging independent of the AC inverter.
 - DC Coupling permits both the inverter AND Storage Interface to operate at 100% capacity simultaneously, for a continuous combined PV power management of up to 12.3kW.
 - 12.3kW example: 7.3kW inverter and 5kW battery
- DC Coupled PV Sizing rules:
 - Inverter rated PV Array capacity, plus 100% charge rate of the StorEdge Interface OR battery - whichever is lower

Sell More Modules with DC Coupled Storage

- Examples:
 - 5kW High Powered Backup inverter + LG RESU10H
 - 5kW Inverter @ 135% = 6.75kW
 - 5kW Interface + 5kW battery = 5kW
 - Total PV capacity = 11.75kW
 - 5kW HD Wave Inverter + 5kW SESTI S-4 + LG RESU10H
 - 5kW Inverter @ 155% = 7.75kW
 - 5kW Interface + 5kW battery = 5kW
 - Total PV capacity = 12.75kW
 - 7.3kW Inverter + 5kW SESTI S-2 + LG RESU10H
 - 7.3kW Inverter @ 135% = 9.855kW
 - 5kW Interface + 5kW battery = 5kW
 - Total PV capacity = 14.855kW
- NOTE: Does not apply to AC Coupled Inverter/battery systems!

Sell More Modules with DC Coupled Storage

- Opportunities:
 - Sell more PV and claim STC's on new PV+ Storage systems
 - Revisit existing customers and upsell additional PV to StorEdge and Backup sites
 - Comply with DNSP design rules for inverter/generation capacity
 - Enable your customers to fully utilise the storage capacity of their systems
- Advantages:
 - No DNSP inverter limitations for storage systems – eg ACB Inverter + PV Inverter
 - DC Coupled for Black Start recovery and extended blackout/continuous running
 - Rapid battery recovery, even in low light or high AC load conditions
 - Increased system PV capacity for progressive site upgrades

DC Charging: Claiming STC's

- 133% sizing rule and why it doesn't apply:
 - The 133% sizing ratio is imposed by the CER, and based on the CEC guidelines
 - CEC Guidelines are for “*Grid Connected Solar Systems (no battery storage)*”

GRID-CONNECTED SOLAR PV SYSTEMS

NO BATTERY STORAGE

Design Guidelines for Accredited Installers

- The 133% is derived from section 9.4 which states:

9 INVERTER SELECTION

9.4 ARRAY PEAK POWER – INVERTER SIZING

In order to facilitate the efficient design of PV systems the inverter nominal AC power output cannot be less than 75% of the array peak power and it shall not be outside the inverter manufacturer's maximum allowable array size specifications.